

# PATENT ABSTRACTS OF JAPAN

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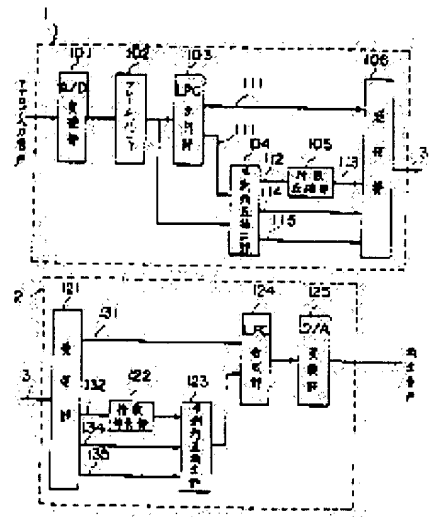
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## (54) VOICE CODING AND DECODING DEVICE

### (57)Abstract:

PURPOSE: To suppress the transmission bit rate by sending amplitude information of a forecast residual series while applying logarithmic compression.

CONSTITUTION: A voice signal inputted to a voice coder 1 is stored in a frame buffer 102 via an AD converter 101 and an LPC coefficient 111 is extracted by an LPC analysis section 103. In inputting the LPC coefficient and the voice data from the frame buffer 102 to a forecast residual extraction section 104, a forecast residual maximum amplitude 112, a forecast residual normalizing amplitude series 114 and a forecast residual location series 115 are extracted. Further, the maximum amplitude 112 is subjected to logarithmic compression by a logarithmic compression section 105 and the forecast residual maximum amplitude 113 is outputted. The data are sent to a voice decoder 2 via a transmission line 3 from a transmission section 106. The voice decoder 2 applies exponential expansion to the amplitude information compressed logarithmically and decodes the result.



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